PCIe 4-Port 5G 5-Speed

Multi-Gigabit Network Adapter

User Manual

Ver. 1.00

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Chapter 1: Introduction

1.1 Product Introduction

This specification defined a high performance PCIe Ethernet adapter which provides four RJ-45 ports for network connection of data rate upto 5Gbps. The PCIe Gen3 x4 interface enables running at maximum full duplex throughput as well as backward compatible with Gen1/2 PCIe slots. With this adapter, the network environment permits easy upgrade to 5Gbps network bandwidth over existing Cat 5E network cabling.

1.2 Features

- PCIe Gen3 x4 form factor
- Supports standard and low profile systems
- Supports 5-speed 5G/2.5G/1G/100M/10Mbps auto negotiation
- Runs 5Gbps on Cat 5E cable up to 100m
- Supports Wake-On-LAN (WoL) and Preboot
- Up to 16KB jumbo frame
- Checksum and TSO offload
- Network ARP and NS offload

1.3 Systems Requirements

Operating systems supported are (both 32 and 64 bits)

- Windows 11/10
- Linux kernel 3.10 or later

1.4 Product Diagram

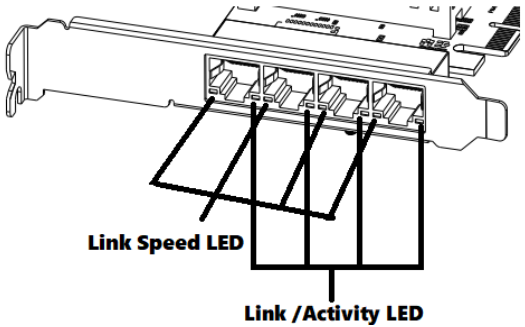


1.5 Package Contents

- 1 x PCIe 4-Port 5G 5-Speed Multi-Gigabit Network Adapter
- 1 x User Manual

Chapter 2: Getting Started

2.1 Hardware Layout



Link/Activity Indicator:

LED	Description
Link /Activity LED	Indicates Network Card Activity: • Solid Green = Network port is connected • Flashing Green = Network port is active • When the LED is flashing, there is traffic on the network.

Link Speed LED	Indicates Link Speed: • Solid Orange = 10M/100M/1000M/2.5Gbps • Solid Green: = 5Gbps

2.2 Hardware Installation

1. Turn off the power to your computer.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCIe slot.
4. To install the card, carefully align the card's bus connector with the selected PCIe slot on the motherboard. Push the board down firmly.
5. Replace the slot bracket's holding screw to secure the card.
6. Secure the computer cover and reconnect the power cord.

2.3 Driver Installation

The following section shows you how to install PCIe 4-Port 5G 5-Speed Multi-Gigabit Network Card driver on different operating systems.

2.3.1 Installation for Windows

1. Go to URL http://www.sunrichtech.com.hk/

2. Search N-1010, download the driver.
3. Follow the on-screen instructions to finish installing the driver.

2.3.2 Installation for Linux

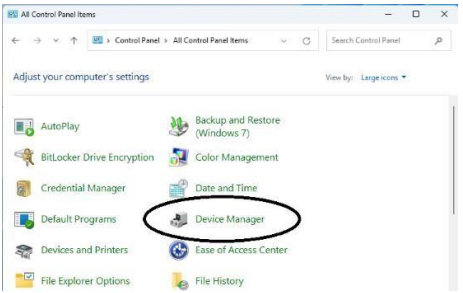
1. Go to URL http://www.sunrichtech.com.hk/
2. Search N-1010, download the driver.
3. Follow the Readme.txt which is in the driver folder to finish installing the driver.

2.4 Verifying the installation

2.4.1 Verifying for Windows

1. Click on the **"Device Manager"** tab in the Windows Control Panel.

Start > Control Panel > Device Manager



2. Expand **"Network adapters"** item, and you can read **"Realtek PCIe 5GbE Family Controller"** in the Device Manager.



2.4.2 Verifying for Linux

1. You can check whether the driver is loaded by using following commands.

   # lsmod | grep r81xx

```
# ifconfig -a
```

If there is a device name, ethX, shown on the monitor, the linux driver is loaded. Then, you can use the following command to activate the ethX.

```
# ifconfig ethX up ,where X=0,1,2,…
```